

METHOD, SYSTEM, AND PROGRAM FOR
CHECKING AND REPAIRING A NETWORK CONFIGURATION

ABSTRACT

Disclosed is a technique for performing configuration checking of a network. A network data store is scanned for at least one transaction. At least one event is generated for said transaction. At least one configuration policy is associated with said event. Said configuration policy is compared with configuration data associated with said event. It is determined whether said configuration policy has been violated based on the comparison.

Also disclosed is a technique for performing proactive configuration checking of a network. A hypothetical network scenario is received. At least one transaction is generated based on the hypothetical network scenario. A network data store is populated with configuration data for said transaction. At least one event is generated for said transaction using a mapping of events to transactions. Configuration data associated with said event is used to determine whether a configuration policy has been violated.

Moreover, disclosed is a technique for performing reactive configuration checking of a network. A request to perform configuration checking on an existing network configuration is received. A network data store is scanned for at least one transaction. At least one event is generated for said transaction using a mapping of events to transactions. Configuration data associated with said event is used to determine whether a configuration policy has been violated.

Furthermore, disclosed is a technique for correcting a configuration problem. The configuration problem is detected. It is determined whether there is at least one solution for the configuration problem in a knowledge data store. When it is determined that there

is at least one solution in the knowledge data store, automatically selecting a solution to solve the configuration problem. When said solution can be automatically applied, automatically applying said solution. When said solution cannot be automatically applied, notifying a user.